



Dart Aerospace Ltd.  
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Hawkesbury, ON  
K6A 1K7  
Canada

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**RB072610-H-B-B03**  
**Job Sheet 193572**



**Part No:** RB072610-H-B-B03

**Job Qty:** 4 pcs

**Part Name:** Tube



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 4/16/19

**Job Tracking No:**

**Due Date:** 5/3/19

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:**

**Note:** DWG RB072610-H-B Rev.1 IPP Rev. A 19.01.23 New issue DP Verify DD

**Ship Via:**

### Bill of Materials

### Job Routing

| Op<br>No | Operation  | Qty   | Start Date | Due<br>Date | Standard     |            | Workcenter/Supplier   |           | Sign-off    |
|----------|------------|-------|------------|-------------|--------------|------------|-----------------------|-----------|-------------|
|          |            |       |            |             | Setup<br>Hrs | Run<br>Hrs | Workcenter / Supplier | Lead Time |             |
| 100      | NV5000 - 1 | 4 pcs | 5/3/19     | 5/3/19      | 0.00         | 4.00       | NV5000 - 1            |           | JF 19-05-01 |
|          |            |       |            |             |              |            | NV5000 - 2            |           |             |
| 110      | QC 2       | 4 pcs | 5/3/19     | 5/3/19      | 0.00         | 0.00       | QC 2 - 1              |           | JF 19-05-01 |
|          |            |       |            |             |              |            | QC 2 - 12             |           |             |
|          |            |       |            |             |              |            | QC 2 - 14             |           |             |
|          |            |       |            |             |              |            | QC 2 - 17             |           |             |
|          |            |       |            |             |              |            | QC 2 - 19             |           |             |
|          |            |       |            |             |              |            | QC 2 - 2              |           |             |
|          |            |       |            |             |              |            | QC 2 - 20             |           |             |
|          |            |       |            |             |              |            | QC 2 - 22             |           |             |
|          |            |       |            |             |              |            | QC 2 - 23             |           |             |
|          |            |       |            |             |              |            | QC 2 - 25             |           |             |
|          |            |       |            |             |              |            | QC 2 - 32             |           |             |
|          |            |       |            |             |              |            | QC 2 - 33             |           |             |
|          |            |       |            |             |              |            | QC 2 - 35             |           |             |
|          |            |       |            |             |              |            | QC 2 - 39             |           |             |
|          |            |       |            |             |              |            | QC 2 - 4              |           |             |
|          |            |       |            |             |              |            | QC 2 - 40             |           |             |
|          |            |       |            |             |              |            | QC 2 - 44             |           |             |
|          |            |       |            |             |              |            | QC 2 - 45             |           |             |
|          |            |       |            |             |              |            | QC 2 - 48             |           |             |
|          |            |       |            |             |              |            | QC 2 - 49             |           |             |
|          |            |       |            |             |              |            | QC 2 - 50             |           |             |
|          |            |       |            |             |              |            | QC 2 - 51             |           |             |
|          |            |       |            |             |              |            | QC 2 - 52             |           |             |
|          |            |       |            |             |              |            | QC 2 - 57             |           |             |
|          |            |       |            |             |              |            | QC 2 - 62             |           |             |
|          |            |       |            |             |              |            | QC 2 - 63             |           |             |
|          |            |       |            |             |              |            | QC 2 - 8              |           |             |
|          |            |       |            |             |              |            | QC 2 - 66             |           |             |
|          |            |       |            |             |              |            | QC 2 - 64             |           |             |



**Container No:** S177301



**Part:** RB072610-H-B-B03

**Job No:** 193572

**Serial No/Batch:** S177301

**Revision:** 1

**Inspector:**

**Exp Date:**

**Instructions:**

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Date: 05/01/19

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|                                                                                                                    |                                                     |                    |                  |                  |                       |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------|------------------|------------------|-----------------------|
|                                                                                                                    |                                                     |                    |                  | QC 2 - 65        |                       |
|                                                                                                                    |                                                     |                    |                  | QC 2 - 5         |                       |
|                                                                                                                    |                                                     |                    |                  | QC 2 - 71        |                       |
| 120                                                                                                                | QC 8                                                | 4 pcs              | 5/3/19           | 0.00 0.00        | QC 8 - 12             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 14             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 17             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 20             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 25             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 3              |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 32             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 33             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 35             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 39             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 4              |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 44             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 45             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 49             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 58             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 8              |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 9              |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 68             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 67             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 1 (A)          |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 47             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 40             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 52             |
|                                                                                                                    |                                                     |                    |                  |                  | QC 8 - 23             |
| 130                                                                                                                | Packaging 3-1 - Stock - B4B                         | 4 pcs              | 5/3/19           | 0.00 0.00        | Packaging 3 - 1 - B4B |
|                                                                                                                    |                                                     |                    |                  |                  | Packaging 3 - 2 - B4B |
|                                                                                                                    |                                                     |                    |                  |                  | Packaging 3 - 3 - B4B |
|                                                                                                                    |                                                     |                    |                  |                  | Packaging 3 - 4 - B4B |
|                                                                                                                    |                                                     |                    |                  |                  | Packaging 3 - 5 - B4B |
| 140                                                                                                                | QC 21 - SA                                          | 4 pcs              | 5/3/19           | 0.00 0.00        | QC 21 - SA - 21       |
|                                                                                                                    |                                                     |                    |                  |                  | QC 21 - SA - 70       |
| Part Op 100 - 1-Machine as per folio FC651 FOLIO REV: <u>14</u> DWG REV: <u>1</u> 2-Debur<br>Descriptions: 130 - . |                                                     |                    |                  |                  |                       |
| <b>Job BOM</b>                                                                                                     |                                                     |                    |                  |                  |                       |
| <b>Part / Item</b>                                                                                                 | <b>Component Name</b>                               | <b>Quantity</b>    | <b>Operation</b> | <b>Container</b> |                       |
| MT-A500-TR-1.000X2.000W0.188                                                                                       | Hot Rolled Steel Rectangular Tubing 1.000" X 2.000" | 5.2000 ft (1.3 ea) | 100-NV5000 - 1   | S154 9/0         |                       |
| <b>Job Allocations</b>                                                                                             |                                                     |                    |                  |                  |                       |
| <b>Operation</b>                                                                                                   | <b>Component Part</b>                               | <b>Required</b>    | <b>Inventory</b> | <b>Allocated</b> |                       |
| 100-NV5000 - 1                                                                                                     | MT-A500-TR-1.000X2.000W0.188                        | 5                  | 19               | 0                |                       |
| <b>Part Specifications</b>                                                                                         |                                                     |                    |                  |                  |                       |
| Specifications could not be found.                                                                                 |                                                     |                    |                  |                  |                       |

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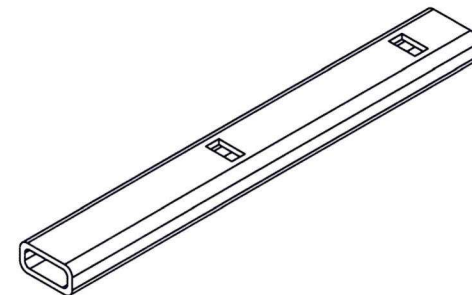
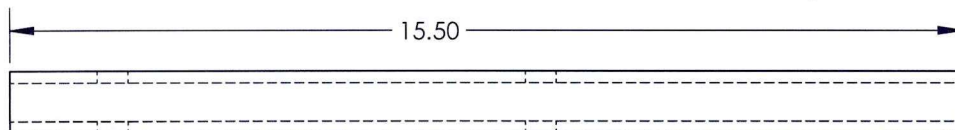
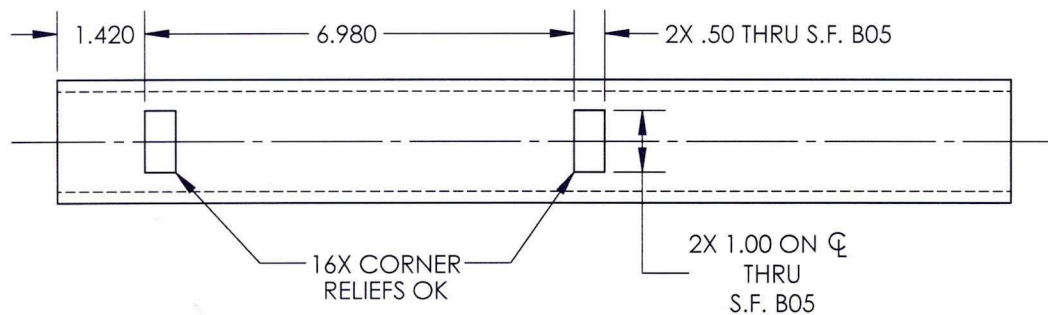
9A



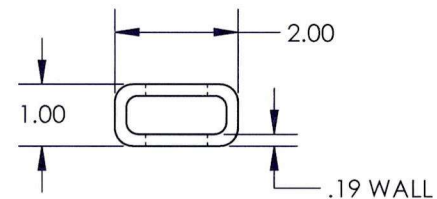


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| REVISIONS |         |                                   |           |         |          |
|-----------|---------|-----------------------------------|-----------|---------|----------|
| REV       | ECR     | DESCRIPTION                       | DATE      | INITIAL | APPROVED |
| 1         | 15-0110 | -B03 ADDED 16X CORNER RELIEFS OK. | 5/18/2015 | RJC     | JAG      |



SHOP COPY  
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SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 193572 M.C.S.  
190416



(-B03)

TUBE

|                                                        |                                  |
|--------------------------------------------------------|----------------------------------|
| <b>DART<br/>AEROSPACE</b>                              |                                  |
| TITLE<br><b>SKID TUBE ATTACHMENT</b>                   |                                  |
| DWG NO.<br><b>RB072610-H-B03</b>                       | REV<br><b>1</b>                  |
| MAT'L 1018                                             | DRAWN BY: <b>PERRITT</b>         |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES | APPROVED <b>D Weil</b>           |
| .XXX ± .005                                            | HEAT TREAT                       |
| .XX ± .01                                              | FINISH                           |
| .X ± .1                                                | SEE B01                          |
| 1. BREAK ALL SHARP EDGES .015 x 45°                    | SPEC                             |
| OR .015R                                               | USED ON MODEL                    |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING              | <b>BELL 206L, 407, &amp; 427</b> |
| SCALE 1:3                                              | DATE 3/9/2011                    |
| SHEET 3 OF 7                                           |                                  |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |